RCE of USSN: 10/075,715 Attorney Docket No: 1059.00073

AMENDED VERSION

IN THE CLAIMS:

1. (Previously presented) A method of affecting new neuron growth in a patient comprising the steps of:

administering post ischemic event to a patient in need thereof a therapeutic amount of a therapeutic compound selected from the group of L-arginine, sildenafil, statins, and phosphodiesterase inhibitors for increasing levels of cGMP to a patient in need of neurogenesis; affecting new neuron growth; and identifying increased numbers of new neurons.

2-5. (Canceled)

- 6. (Previously presented) A method of augmenting the production of neurons in a patient by administering post ischemic event to a patient in need thereof an effective amount of a therapeutic compound selected from the group of L-arginine, sildenafil, statins, and phosphodiesterase inhibitors that increase levels of cGMP, to a site in need of augmentation; augmenting the production of new neurons; and identifying increased numbers of new neurons.
- 7. (Previously presented) A method of increasing neurological function in a patient by administering post ischemic event to a patient in need thereof an effective amount of a therapeutic compound selected from the group of L-arginine, sildenafil, statins, and phosphodiesterase inhibitors that increase levels of cGMP to a patient in need of increased neurological function after neurological damage has occurred; creating new neuron growth; increasing neurological function; and identifying increased numbers of new neurons.
 - 8. (Previously presented) A method of increasing cognitive and

RCE of USSN: 10/075,715 Attorney Docket No: 1059.00073

neurological function in a patient by administering post ischemic event an effective amount of a therapeutic compound selected from the group of L-arginine, sildenafil, statins, and phosphodiesterase inhibitors for increasing levels of cGMP to a patient in need of increased cognitive and neurological function after neurological and cognitive damage has occurred; creating new neuron growth; increasing cognitive and neurological function; and identifying increased numbers of new neurons.

9-13. (Canceled)

14. (Previously presented) A method of affecting new neuron growth in a patient comprising the steps of:

administering post ischemic event to a patient in need thereof a therapeutic amount of a therapeutic compound selected from the group of sildenafil, statins, and phosphodiesterase inhibitors for increasing levels of cGMP to a patient in need of neurogenesis; and affecting new neuron growth.

- 15. (Previously presented) A method of augmenting the production of neurons in a patient by administering post ischemic event to a patient in need thereof an effective amount of a therapeutic compound selected from the group of sildenafil, statins, and phosphodiesterase inhibitors that increase levels of cGMP, to a site in need of augmentation; and augmenting the production of new neurons.
- 16. (Previously presented) A method of increasing neurological function in a patient by administering post ischemic event to a patient in need thereof an effective amount of a therapeutic compound selected from the group of sildenafil, statins, and phosphodiesterase inhibitors that increase levels of cGMP to a patient in need of increased neurological function after neurological damage has occurred; creating new neuron growth; and increasing neurological function.

RCE of USSN: 10/075,715 Attorney Docket No: 1059.00073

17. (Previously presented) A method of increasing cognitive and neurological function in a patient by administering post ischemic event an effective amount of a therapeutic compound selected from the group of sildenafil, statins, and phosphodiesterase inhibitors for increasing levels of cGMP to a patient in need of increased cognitive and neurological function after neurological and cognitive damage has occurred; creating new neuron growth; and increasing cognitive and neurological function.